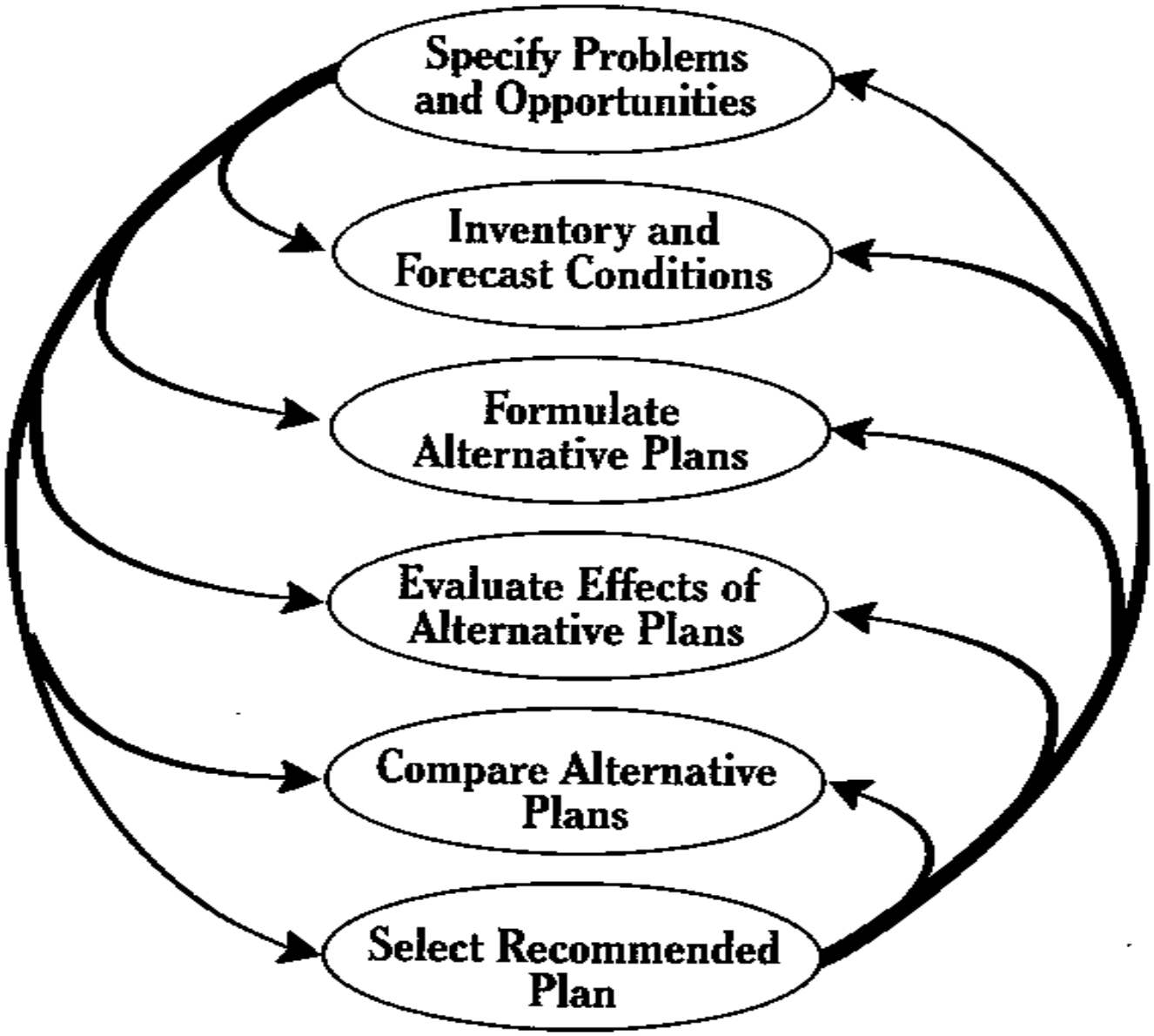
PLANNING PROCESS



STEP 1
SPECIFY PROBLEMS AND OPPORTUNITIES

PROBLEMS AND OPPORTUNITIES LEARNING OBJECTIVES

- Principles and Guidelines Requirements
- Concepts
  - Problems and opportunities
  - Goals and objectives
  - Objectives and constraints
- Where do they come from?
- What do you do with them?

PROBLEMS AND OPPORTUNITIES LEARNING OBJECTIVES

- *Principles and Guidelines Requirements*
- Concepts
  - Problems and opportunities
  - Goals and objectives
  - Objectives and constraints
- Where do they come from?
- What do you do with them?

PRINCIPLES AND GUIDELINES REQUIREMENTS

- Section II - The Federal Objective
  - 1.3.3 Specification of the Problems and Opportunities Associated With the Federal Objective and Specific State and Local Concerns
  - 1.5.2 Problems and Opportunities

"The Federal objective of water and related land resources planning is to contribute to national economic development consistent with protecting the Nation's environment, pursuant to national environmental statutes, applicable executive orders, and other Federal planning requirements."

Principles and Guidelines
Chapter I, Section II, paragraph (a)

"Each statement of a problem or opportunity should be expressed in terms of a desired output. Example statements are -

"Reduce flood losses in the Red River floodplain to increase agricultural production.

"Reduce the cost of agricultural production in the irrigated sector of Tolland County; and

"Increase the value of the recreational experience at Lake Zoar."

Principles and Guidelines
Chapter I, Section II, paragraph (d)

(emphasis added)

PROBLEMS AND OPPORTUNITIES LEARNING OBJECTIVES

- Principles and Guidelines Requirements
- *Concepts*
  - Problems and opportunities
  - Goals and objectives
  - Objectives and constraints
- Where do they come from?
- What do you do with them?

CONCEPTS

- Problems
- Opportunities
- Goals
- Objectives
- Constraints

SENTENCE

PROBLEMS AND OPPORTUNITIES LEARNING OBJECTIVES

- Principles and Guidelines Requirements
- *Concepts*
  - *Problems and opportunities*
  - Goals and objectives
  - Objectives and constraints
- Where do they come from?
- What do you do with them?

PROBLEM AND OPPORTUNITY

- Conditions found in the world.
- Problem: NEGATIVE.
- Opportunity: POSITIVE.
- Is the glass half full or half empty?

SAMPLE PROBLEM STATEMENTS

The problems in the Franklin Creek watershed are:

- Loss of fish habitat in Franklin Creek due to urbanization.
- Flood damages in the industrial section of the Central City.
- Streambank erosion along Campus Park.
- Saltwater intrusion in the Franklin Bay estuary.

SAMPLE OPPORTUNITY STATEMENTS

There are opportunities in the Franklin Creek watershed to:

- Increase wildlife habitat along Campus Park.
- Restore indigenous fish species in the upper basin.
- Improve unique birdwatching opportunities along the waterfront.

PROBLEM/OPPORTUNITY PROFILE

- Source
- Public Concerns
  - Advocate
  - Basis
  - Background
  - Other stakeholders
- Technical Analyses
  - Subject
  - Location
  - Measurement
  - Conditions
  - Decision criteria
  - Causes and effects
  - Conclusion
- Problem/Opportunity Statement
- Information
  - Sources
  - Studies needed

PROBLEMS AND OPPORTUNITIES LEARNING OBJECTIVES

- Principles and Guidelines Requirements
- *Concepts*
  - Problems and opportunities
  - *Goals and objectives*
  - Objectives and constraints
- Where do they come from?
- What do you do with them?

GOAL AND OBJECTIVE

Goal:

DO GOOD BROADLY

Objective:

DO GOOD SPECIFICALLY

Begin with the unspoken “To…”

OUR GOAL:
TO BE HAPPY

YOUR OBJECTIVE:

_____

SAMPLE GOAL

”[blah, blah, blah…] to contribute to national economic development consistent with protecting the Nation's environment, pursuant to national environmental statutes, applicable executive orders, and other Federal planning requirements."

SAMPLE PLANNING OBJECTIVES

- Reduce flood damages in the City of Maccaville through the year 2020.
- Improve navigation delivery times at Julian Harbor through the year 2020.
- Restore degraded tall-grass wetland habitat in Harrison County through the year 2020.

"The Federal objective of water and related land resources planning is to contribute to national economic development consistent with protecting the Nation's environment, pursuant to national environmental statutes, applicable executive orders, and other Federal planning requirements."

Principles and Guidelines
Chapter I, Section II, paragraph (a)

	UNITED STATES
GOALS	Life, liberty, pursuit of happiness (Declaration of Independence).
OBJECTIVES	National economic development (P&G).

	UNITED STATES	YOUR STUDY AREA
GOALS	Life, liberty, pursuit of happiness (Declaration of Independence).	National economic development (P&G).
OBJECTIVES	National economic development (P&G).	Planning objectives: • Flood • Navigation

PROBLEMS AND OPPORTUNITIES LEARNING OBJECTIVES

- Principles and Guidelines Requirements
- *Concepts*
  - Problems and opportunities
  - Goals and objectives
  - *Objectives and constraints*
- Where do they come from?
- What do you do with them?

OBJECTIVES AND CONSTRAINTS

- Objective: DO GOOD
- Constraint: DON'T DO, CAN'T DO
- Begin with the unspoken "To…"

Endangered species:

As an objective…

As a constraint…

Ferocies (*carnivus maximus*)

TYPES OF CONSTRAINTS

- Planning Constraints
  - universal givens
  - unique to each study
- Study Resource Constraints
  - time
  - money
  - talent

SAMPLE PLANNING CONSTRAINTS

- Avoid effects on habitat of the Federally endangered three-toed blackbird in the Blue River watershed.
- Minimize relocation of homes and businesses from District 5 in Starrtown.
- Maintain the visual quality of the Blue River riparian zone from river mile 6.0 through river mile 17.5.

OBJECTIVE/CONSTRAINT PROFILE

- Problem/Opportunity Statement
- Analysis
  - Effect
  - Resource
  - Location
  - Timing and duration
  - Measurement
  - Decision criteria
  - Sponsor
  - Other stakeholders
  - Sources of information
  - Studies needed
- Statement
- Potential solutions

PLANNING OBJECTIVE

- Statement - sentence

- Effect - verb
- Problem/Opportunity - subject
- Location
- Timing and Duration

TYPES OF EFFECTS

- ACTIONS
  - conserve
  - create
  - enhance
  - improve
  - maintain
  - preserve
  - protect
  - reduce
  - restore
- CONDITIONS
  - conservation
  - creation
  - enhancement
  - improvement
  - maintenance
  - preservation
  - protection
  - reduction
  - restoration

PLANNING OBJECTIVE

- Statement - sentence

- Effect - verb
- Problem/Opportunity - subject
- Location
- Timing and Duration

A planning objective…

- IS:
  - flexible
  - measurable
  - attainable
  - congruent
  - supported
- IS NOT:
  - solution
  - absolute target
  - “Federal objective”
  - account
  - study objective

SAMPLE STUDY OBJECTIVES

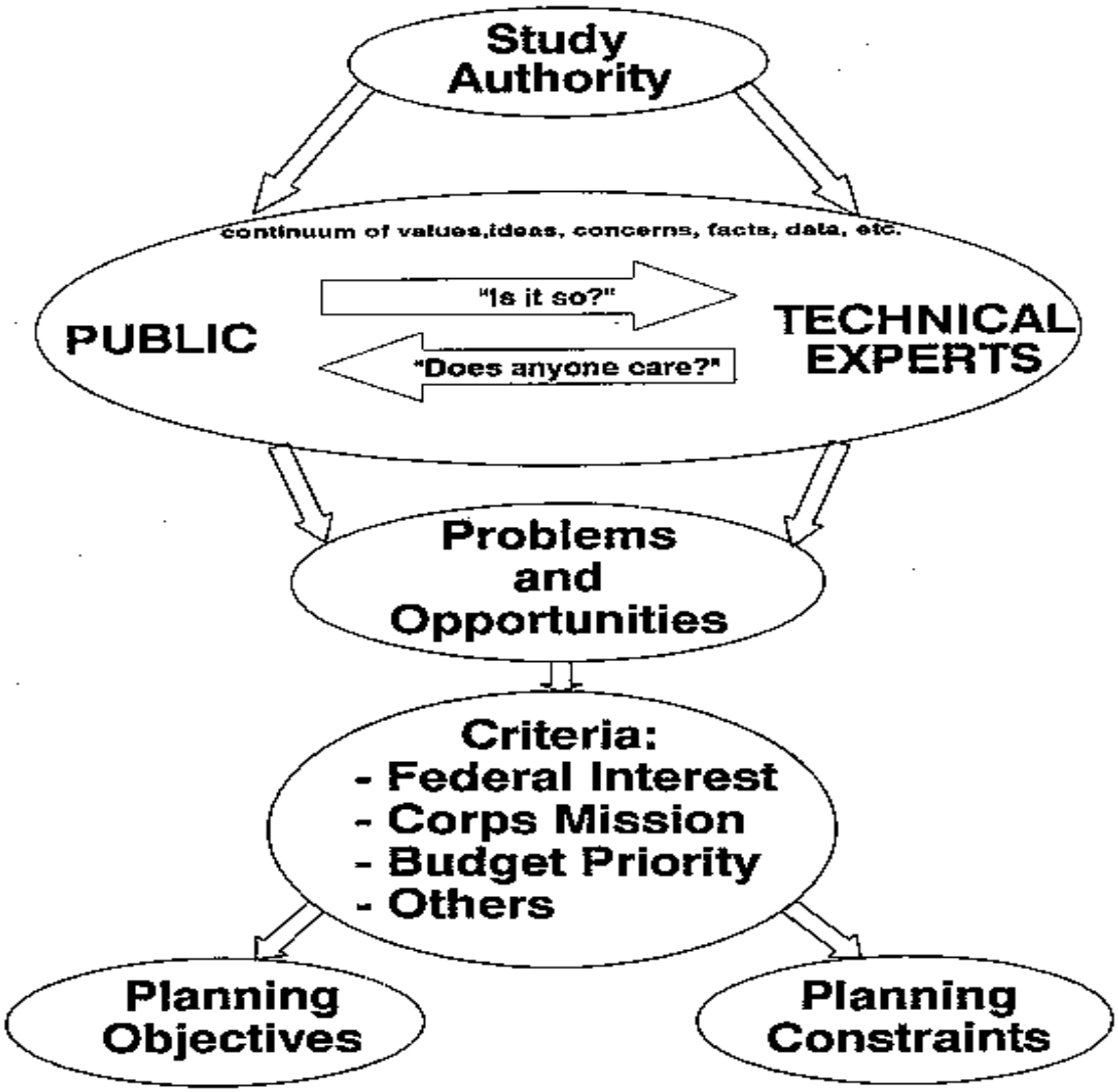
- Conduct adequate environmental studies to develop habitat unit values for study area fish and wildlife.
- Formulate an NED Plan.
- Assess the effects of all alternative plans on cultural resources.

These ARE NOT planning objectives.

PROBLEMS AND OPPORTUNITIES LEARNING OBJECTIVES

- Principles and Guidelines Requirements
- Concepts
  - Problems and opportunities
  - Goals and objectives
  - Objectives and constraints
- *Where do they come from?*
- What do you do with them?

WHERE OBJECTIVES AND CONSTRAINTS COME FROM:



SAMPLE STUDY AUTHORITY

"Resolved by the Committee on Public Works and Transportation of the United States House of Representatives, that the Board of Engineers for Rivers and Harbors is hereby requested to review the report of the Chief of Engineers on the Anacostia River and Tributaries... with a view to determining if further improvements for flood control, navigation, erosion, sedimentation, water quality and other related water resources needs are advisable at this time."

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(1) FLOOD CONTROL, (2) NAVIGATION, (3) EROSION, (4) SEDIMENTATION, (5) WATER QUALITY, and (6) OTHER RELATED WATER RESOURCE NEEDS **are** advisable at this time."

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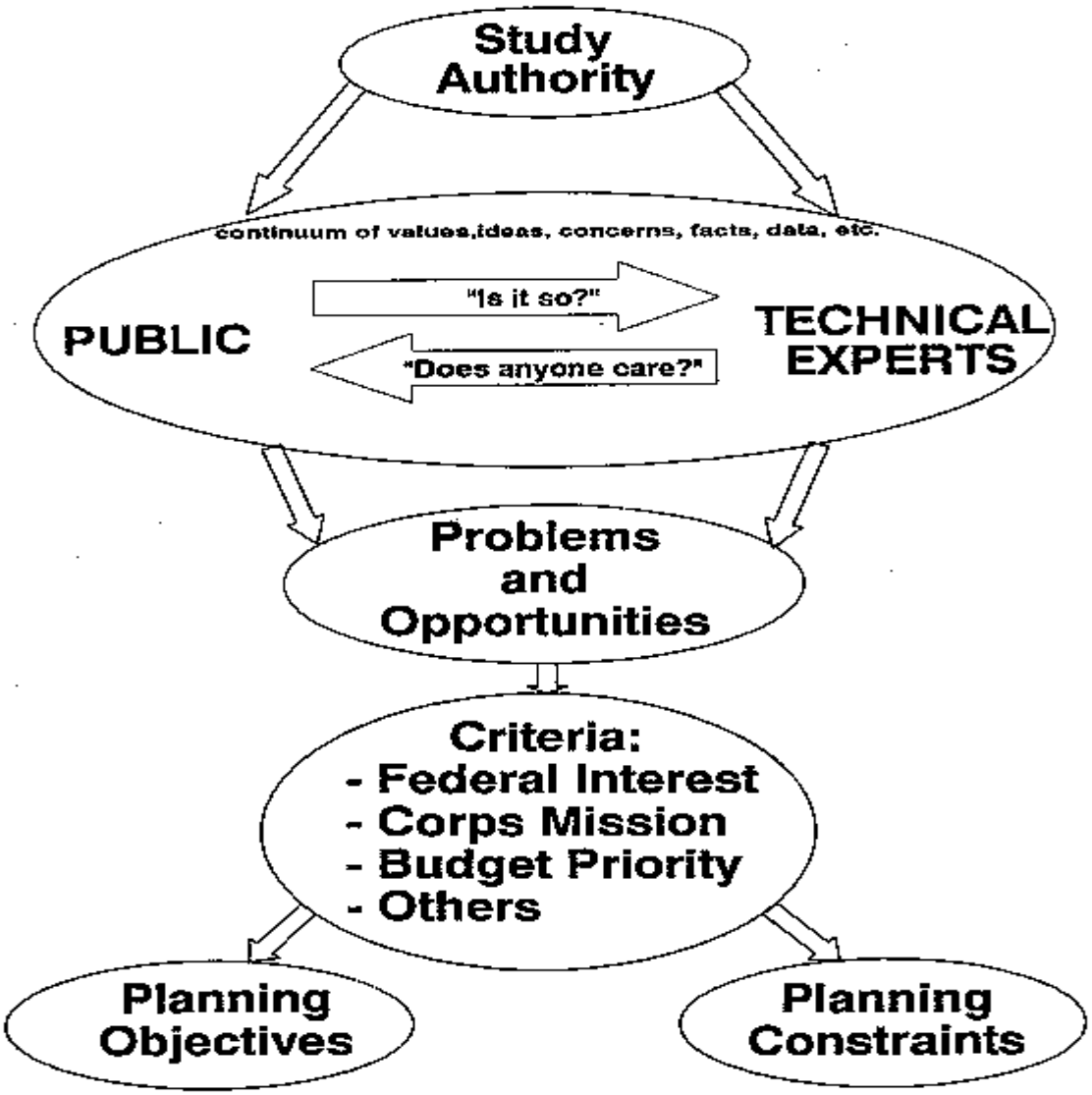


WHO'S THE PUBLIC, WHO'S AN EXPERT?

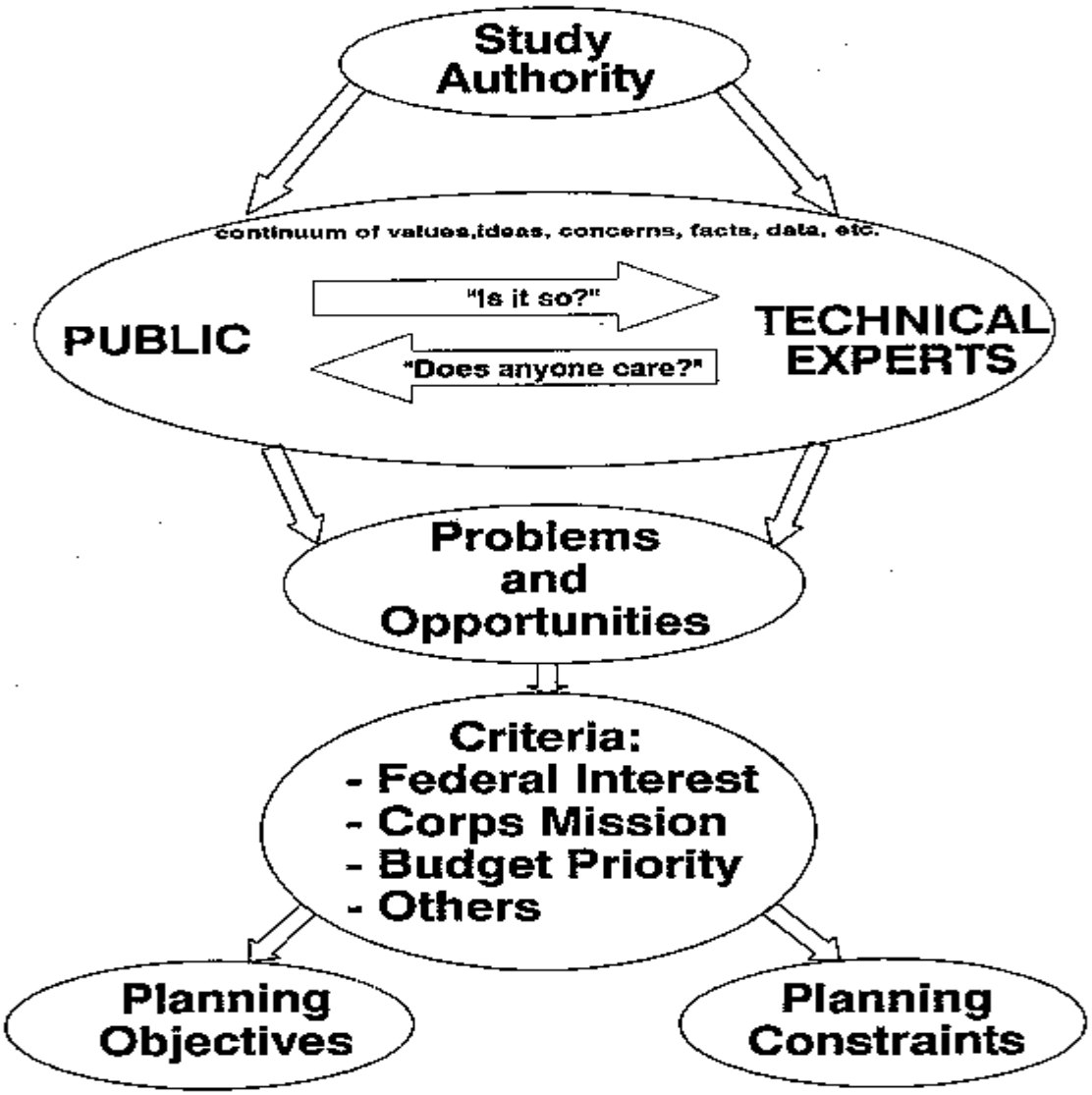
- "PUBLICS"
  - Audubon Society
  - Chamber of Commerce
  - County Commissioners
  - Jane and John Doe
  - Flood Control District
  - Governor
  - Homeowners' Association
  - Mayor
  - Port Authority
  - School District
  - Sierra Club
  - State Fish and Game Dept.
  - State Transportation Dept.
  - USEPA
  - USF&WS
  - etc.

- PUBLIC INVOLVEMENT

- "EXPERTS"
  - archeologists
  - attorneys
  - biologists
  - chemists
  - civil engineers
  - ecologists
  - economists
  - geographers
  - geologists
  - hydraulic engineers
  - hydrologists
  - landscape architects
  - planners
  - psychologists
  - sociologists
  - etc.

- INTERDISCIPLINARY PLANNING

WHERE OBJECTIVES AND CONSTRAINTS COME FROM:

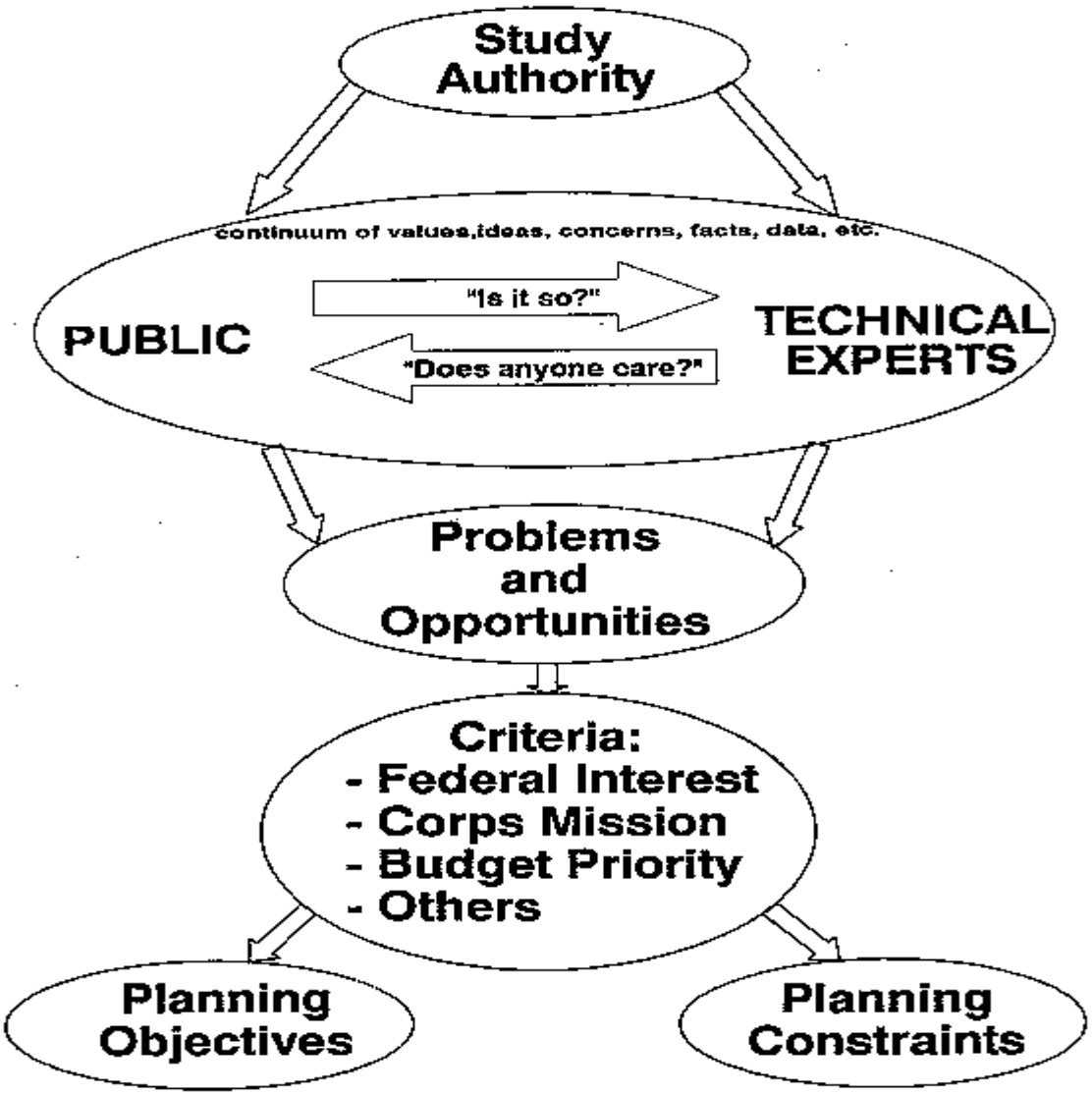


PROBLEM AND OPPORTUNITIES

The problems and opportunities in the Franklin Creek watershed are:

- Loss of fish habitat in Franklin Creek due to urbanization.
- Flood damages in the industrial section of the Central City.
- Streambank erosion along Campus Park.
- Saltwater intrusion in the Franklin Bay estuary.
- Restore indigenous fish species in the upper basin.
- Unique birdwatching opportunities along the Central City waterfront.

WHERE OBJECTIVES AND CONSTRAINTS COME FROM:



PROBLEM/OPPORTUNITY CRITERIA

- Federal interest
- Corps interest
- Administration policy
- [High] priority [budget] output
- Project purposes
- NED benefit categories
- Study authority
- Significance

"FEDERAL INTEREST" REFERENCES

"Federal programs"

***Catalog of Federal Domestic Assistance*. Superintendent of Documents, Government Printing Office. Library of Congress No. 73-600118 (revised quarterly).**

http://www.gsa.gov/fdac

"Federal agencies with jurisdiction by law or special expertise"

***National Environmental Policy Act (NEPA) Implementation Procedures; Appendices I, II and III; Final Rule*. Council on Environmental Quality. 40 CFR Chapter V (Federal Register, Friday, December 21, 1984, pages 49750 - 49782).**

PROBLEM/OPPORTUNITY CRITERIA

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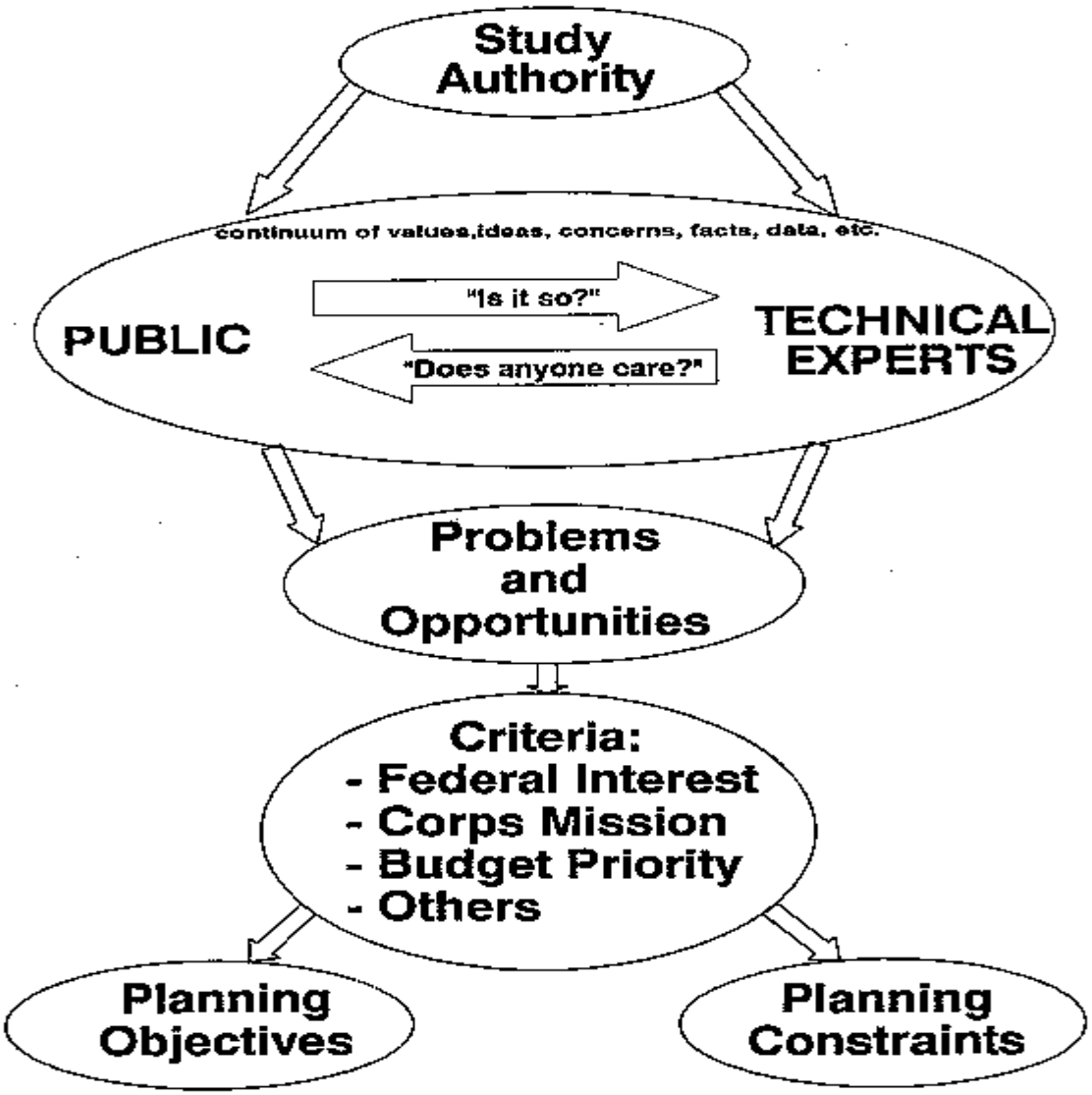
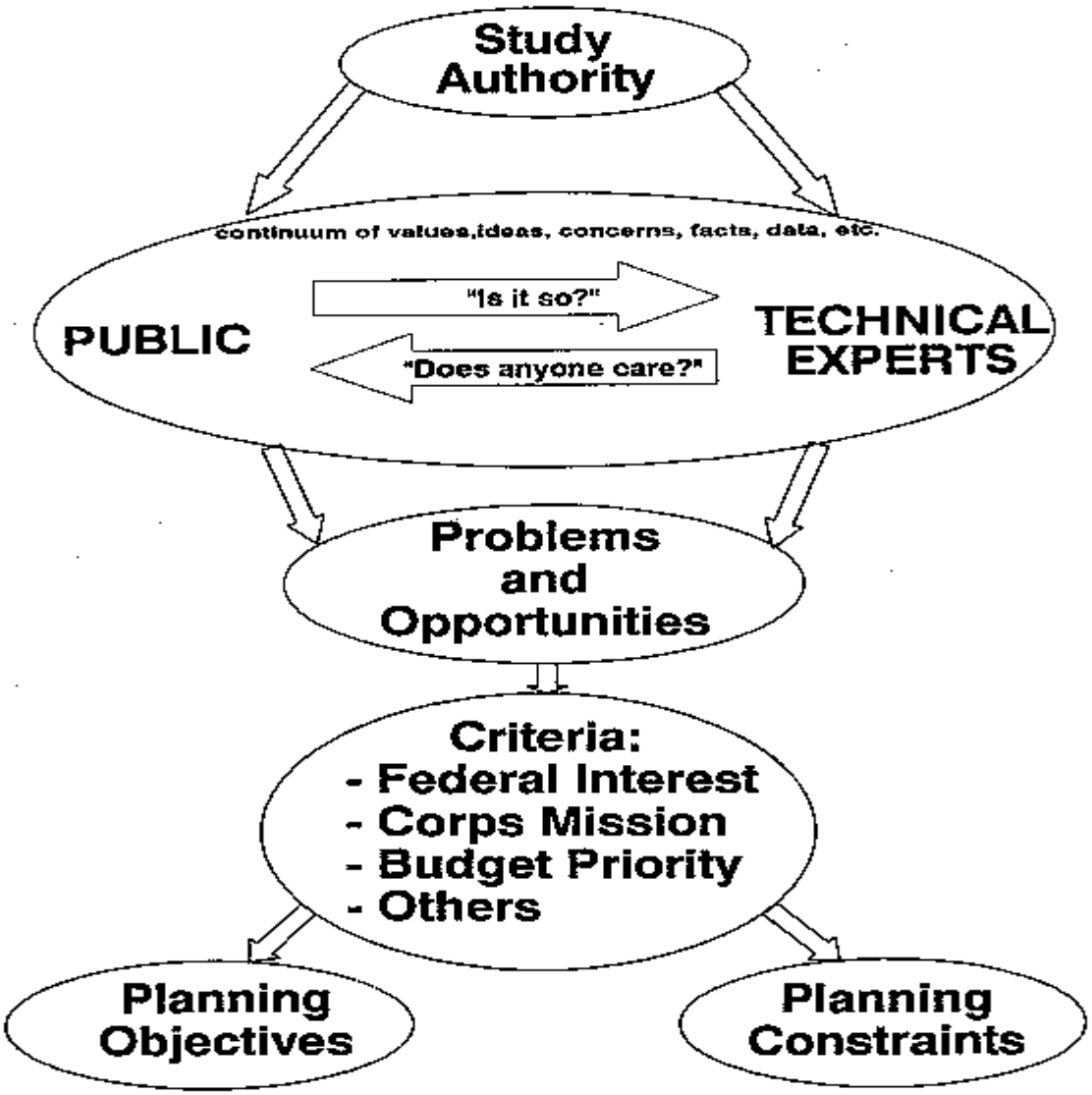


PLANNING OBJECTIVES AND CONSTRAINTS

- Reduce flood damages in Central City.
- Restore habitat for indigenous fish in Franklin Creek.
- Increase birdwatching opportunities along Center City waterfront.
- Avoid effects on habitat of the Federally endangered three-toed blackbird in the Blue River watershed.

WHERE OBJECTIVES AND CONSTRAINTS COME FROM:



PROBLEMS AND OPPORTUNITIES LEARNING OBJECTIVES

- Principles and Guidelines Requirements
- Concepts
  - Problems and opportunities
  - Goals and objectives
  - Objectives and constraints
- Where do they come from?
- *What do you do with them?*

What do you do with planning objectives and constraints?

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE THEM USE THEM

USE PLANNING OBJECTIVES:

- To guide *inventory* data collection and *forecasting*.
- As the basis for *formulating* alternative plans.
- To guide *evaluation* of effects.
- As a basis for *comparing* alternative plans.
- As a basis for *selecting* a recommended plan.

GOOD PLANNING OBJECTIVES…OR NOT?

- Restore riparian cottonwood/willow habitat along the lower five miles of Macca River through the year 2020.
- Provide a control structure to enhance tidal flushing in the the marshes north of the City of Maccaville.
- Contribute to National Economic Development in the City of Maccaville consistent with protecting the Nation's environment.
- Assess the impacts of a flood control project in the City of Maccaville through the year 2020.
- Minimize disturbance of riparian habitat used by the endangered Ferocies along the Macca River.

PROBLEMS & OPPORTUNITIES

LESSON REVIEW

- Principles and Guidelines Requirements
- Concepts
  - Problems and opportunities
  - Goals and objectives
  - Objectives and constraints
- Where do they come from?
- What do you do with them?

QUESTIONS?

PLANNING PROCESS